

CLAIMS

1. An object supporting unit wherein at least a rear end side of an object is supported in a box body in a manner movable along back and forth and a front end side thereof is supported in a manner movable along back and forth by a floor at least through a rolling supporting body so as to draw the object forward from a stored position in the box body, and characterized by that the rolling supporting body adopts a free motion rotating body whose upper end makes an abutting contact with a downward facing surface of the object and whose bottom end contacts the floor, and the free motion rotating body supports the front end side of the object with making a rolling movement at a half traveling speed of the object.
- 15 2. The object supporting unit described in claim 1, wherein the free motion rotating body directly contacts the downward facing surface of the object and the floor.
- 20 3. The object supporting unit described in claim 1, wherein the free motion rotating body contacts the downward facing surface of the object and the floor through an endless track.
4. The object supporting unit described in claim 1, wherein the free motion rotating body is supported by the object in a manner capable of being suspended through a rail and a rotor.
- 25 5. The object supporting unit described in claim 2, wherein

the free motion rotating body is supported by the object in a manner capable of being suspended through a rail and a rotor.

6. The object supporting unit described in claim 3, wherein
5 the free motion rotating body is supported by the object in a manner capable of being suspended through a rail and a rotor.

7. The object supporting unit described in claim 4, wherein
the free motion rotating body is supported at a position
10 floating from the floor through the rail and the rotor at a time when the object is initially moved and the free motion rotating body gets into under an inclined face arranged on the downward facing surface of the object so as to lift the front end side of the object at a time after the free motion
15 rotating body contacts the floor during an operation to move the object.

8. The object supporting unit described in claim 5, wherein
the free motion rotating body is supported at a position
20 floating from the floor through the rail and the rotor at a time when the object is initially moved and the free motion rotating body gets into under an inclined face arranged on the downward facing surface of the object so as to lift the front end side of the object at a time after the free motion
25 rotating body contacts the floor during an operation to move the object.

9. The object supporting unit described in claim 6, wherein

the free motion rotating body is supported at a position floating from the floor through the rail and the rotor at a time when the object is initially moved and the free motion rotating body gets into under an inclined face arranged on

5 the downward facing surface of the object so as to lift the front end side of the object at a time after the free motion rotating body contacts the floor during an operation to move the object.

10 10. The object supporting unit described in claim 7, wherein a stopper is arranged at a part of the rail to hold the rotor tentatively at a front end portion of the rail until the free motion rotating body contacts the floor.

15 11. The object supporting unit described in claim 8, wherein a stopper is arranged at a part of the rail to hold the rotor tentatively at a front end portion of the rail until the free motion rotating body contacts the floor.

20 12. The object supporting unit described in claim 9, wherein a stopper is arranged at a part of the rail to hold the rotor tentatively at a front end portion of the rail until the free motion rotating body contacts the floor.

25 13. The object supporting unit described in claim 1, wherein a width of the free motion rotating body exceeds one third of a width of the object and the free motion rotating body is arranged at a position supporting a middle portion along the

width of the object.

14. The object supporting unit described in claim 1, wherein
the object is a drawer and the box body is a drawer storage
5 portion of a desk with a drawer or store fixtures such as a
wagon or the like equipped with a drawer.

15. The object supporting unit described in claim 14, wherein
the drawer is arranged at the lowest part of the drawer
10 storage portion or the drawer is a simplical body arranged
all over the drawer storage portion.

16. The object supporting unit described in claim 14, wherein
the drawer has an arrangement in which each upper part of
15 three sides of a bottom wall is surrounded by a standing wall
and an upper part of one side thereof that is orthogonal to a
direction accessible to an article to be stored is open.

17. The object supporting unit described in claim 15, wherein
20 the drawer has an arrangement in which each upper part of
three sides of a bottom wall is surrounded by a standing wall
and an upper part of one side thereof that is orthogonal to a
direction accessible to an article to be stored is open.